

EXPERIMENT SET-UP FOR SEQUENTIAL MULTI-BEAM LASER PROCESSING OF MATERIALS

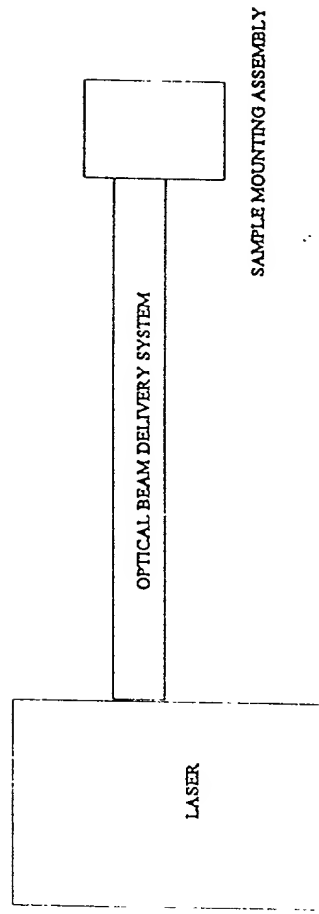


FIG. 1

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Reg no.: 33,338

Docket: 23354/49

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Sheet 1 of 5

1. The first step is to determine the weight of the material to be removed. This is done by measuring the volume of the material and multiplying it by the density of the material.

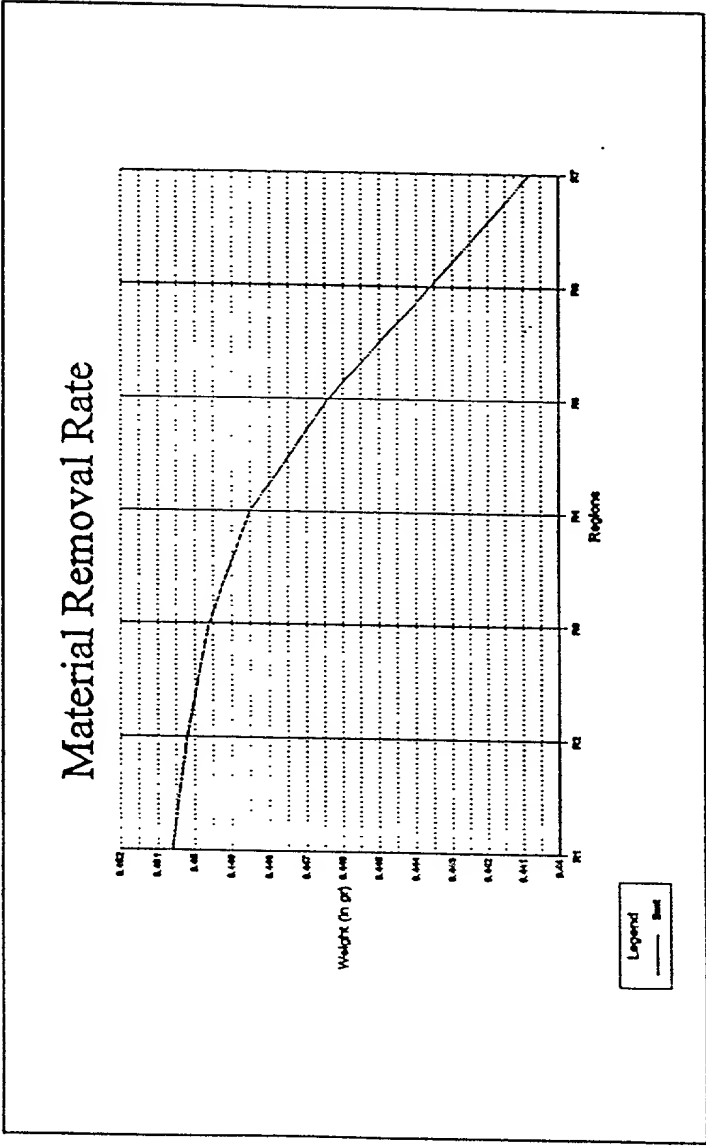


FIG. 2

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 Docket: 23354/49
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 Sheet 2 of 5

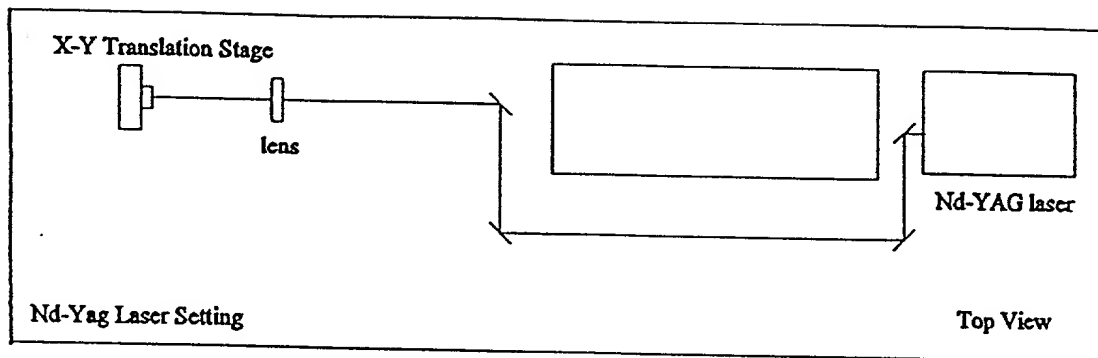


FIG. 3A

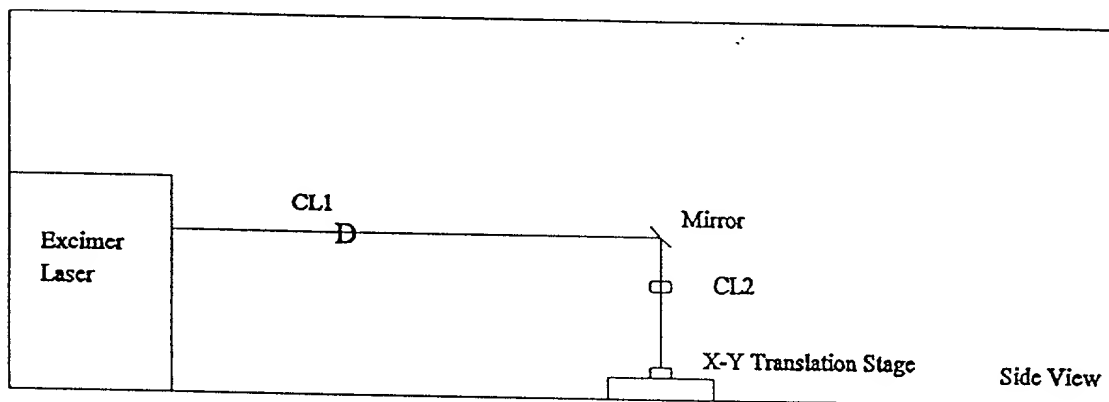


FIG. 3B

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Docket: 23354/49

Express mail: EM 561 728 723 US

Sheet 3 of 5

FIG. 4A

FIG. 4B

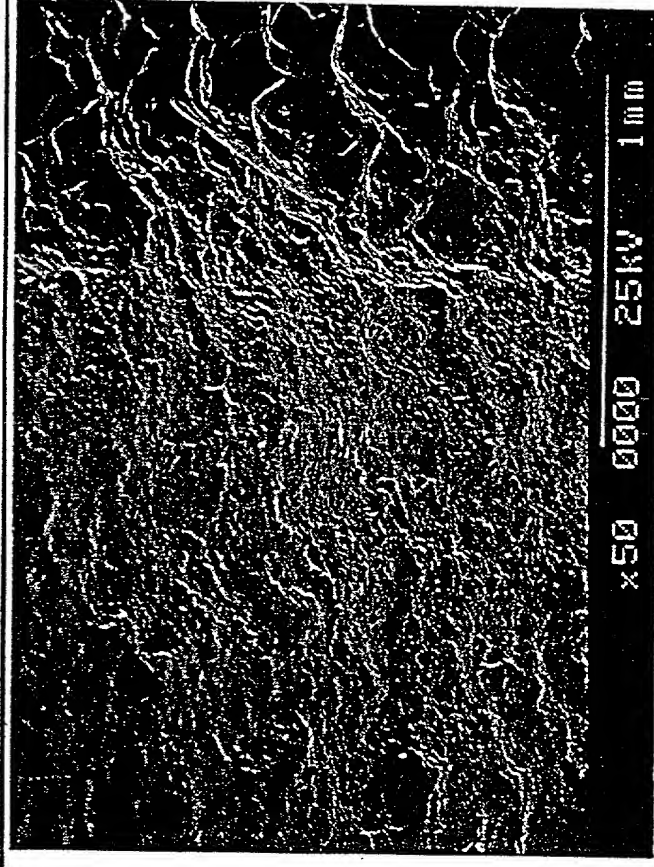
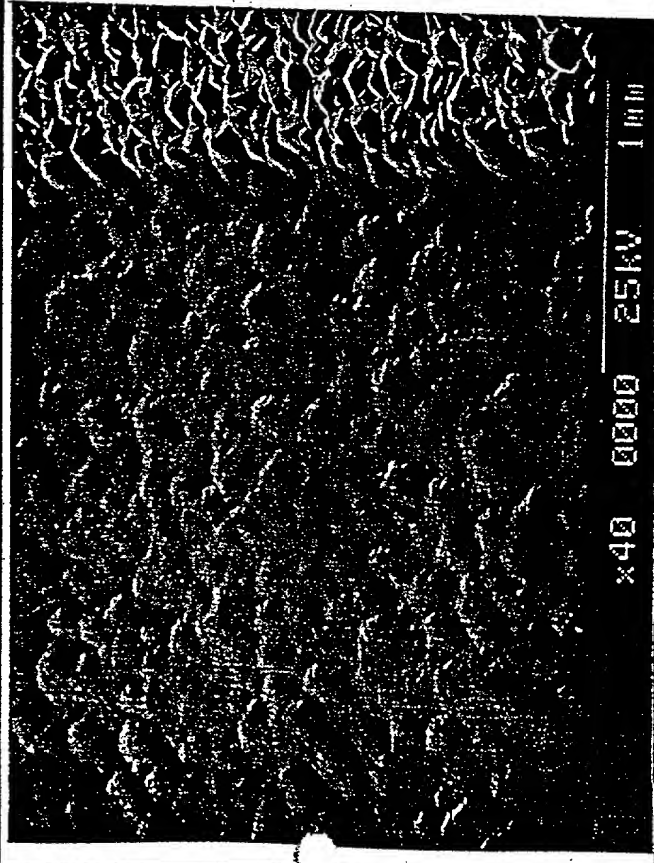
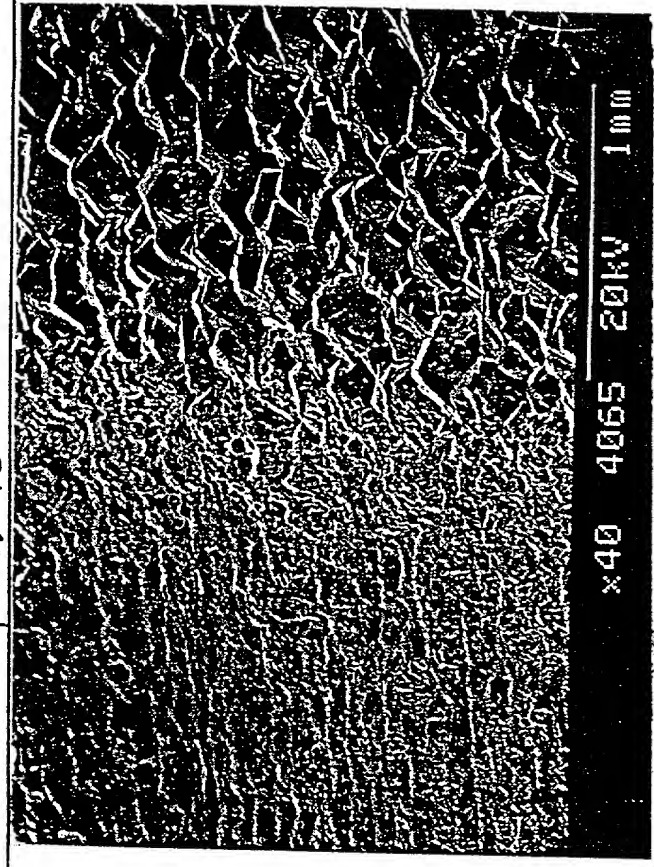
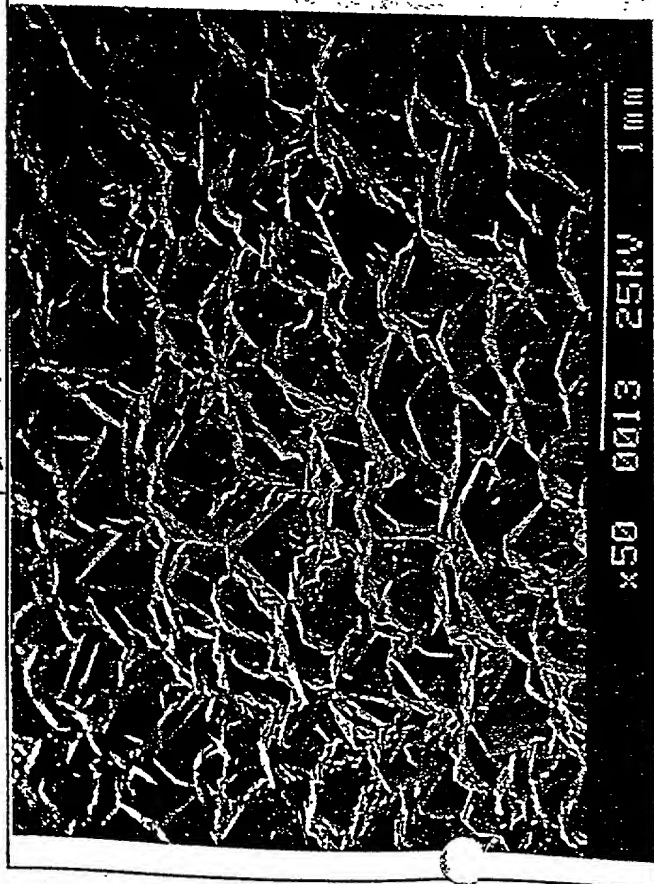


FIG. 4C

FIG. 4D

Figure 4 Scanning Electron Micrographs of diamond surface a) original; b) after Nd-YAG laser; c) after excimer laser; d) after Nd-YAG and excimer lasers

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FIG 5A

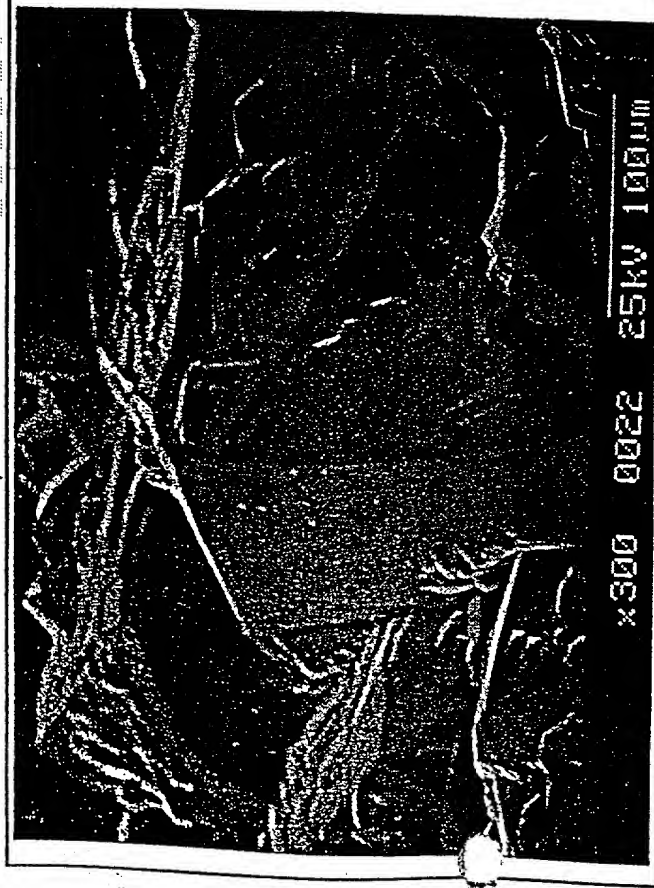


FIG. 5B

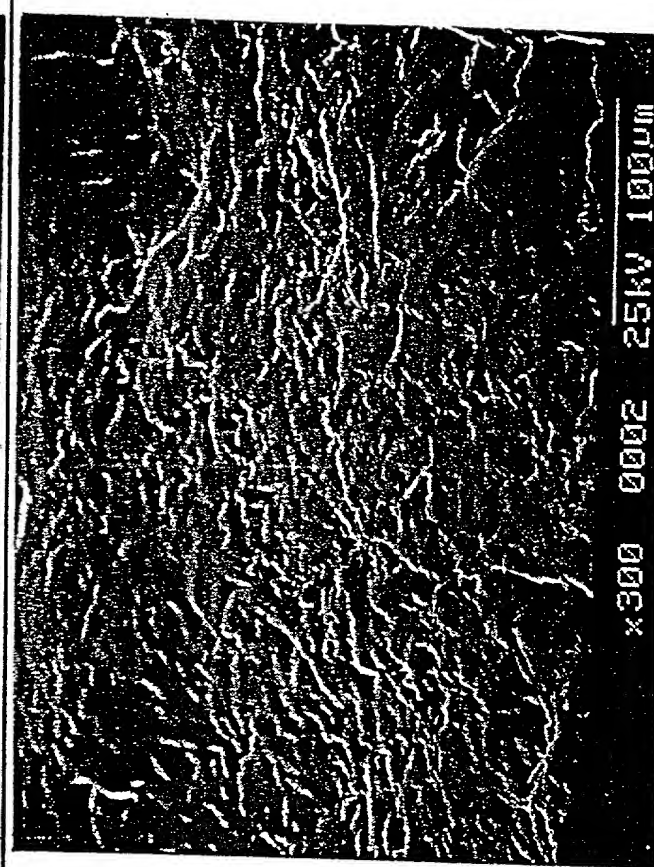
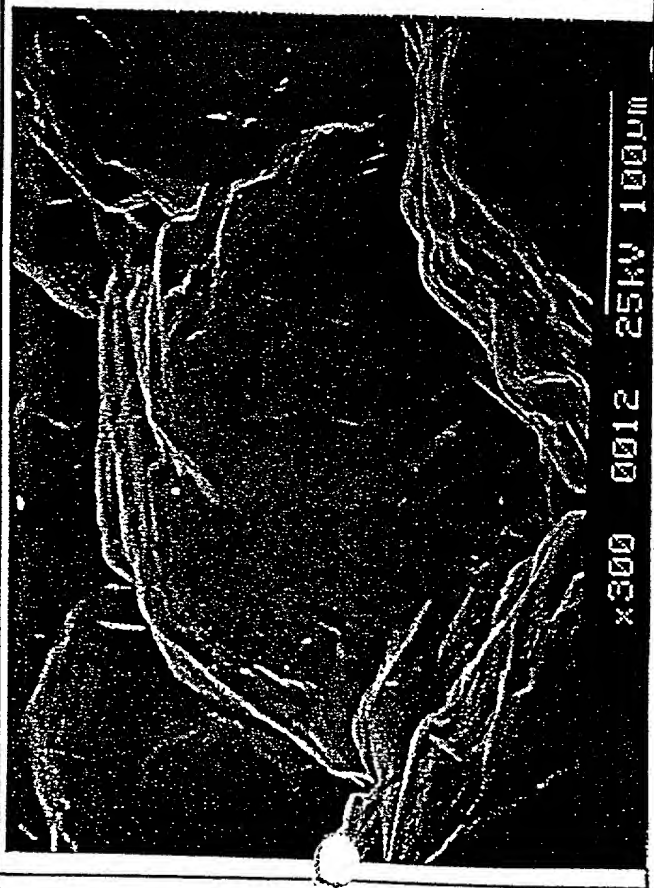
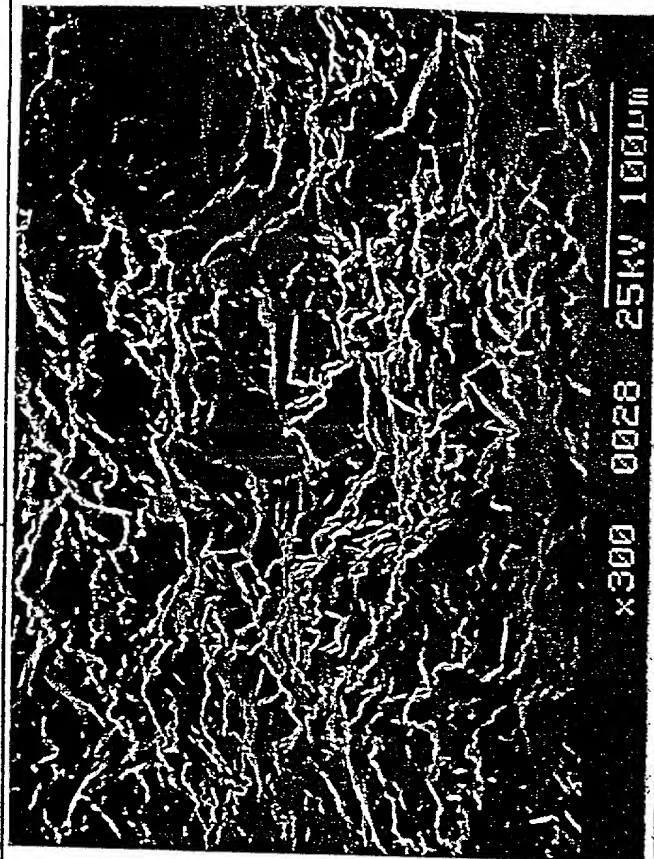


FIG 5C

FIG. 5D

Figure 5 Scanning Electron Micrographs of diamond surface a) original; b) after Nd-YAG laser; c) after excimer laser; d) after Nd-YAG and excimer lasers

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Sheet 5 of 5